



February 10, 2017

Tom Moe USS Corporation P.O. Box 417 8771 Park Ridge Dr Mountain Iron, MN 55768

RE: Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melisa M Woods

Massia Wirds

melisa.woods@pacelabs.com

Project Manager

Enclosures

cc: Cory Hertling Terri Sabetti, NTS







CERTIFICATIONS

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792

Alaska Certification UST-107 Alaska Certification UST-107 Alaska Certification #MN01084

Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 027-137-152

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470 WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

Oklahoma Department of Environmental Quality

Wisconsin DNR Certification #: 999446800

North Dakota Certification #: R-105



SAMPLE SUMMARY

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1282318001	SD 001 (Seep 020)	Water	02/01/17 11:30	02/01/17 13:50



SAMPLE ANALYTE COUNT

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1282318001	SD 001 (Seep 020)	EPA 1664A TPH (1999)	DES	1	PASI-DUL
		USGS I-3765	JJH	1	PASI-V
		EPA 300.0	CSD	1	PASI-V



ANALYTICAL RESULTS

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Date: 02/10/2017 08:48 AM

Sample: SD 001 (Seep 020)	Lab ID:	1282318001	Collecte	d: 02/01/17	' 11:30	Received: 02	/01/17 13:50 Ma	trix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical	Method: EPA	1664A TPH	(1999)					
Total Petroleum Hydrocarbons	ND	mg/L	3.0	1.0	1		02/06/17 14:20		
USGS I-3765 TSS	Analytical	Method: USG	S I-3765						
Total Suspended Solids	1.2	mg/L	1.0	1.0	1		02/08/17 14:45		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0						
Sulfate	941	mg/L	20.0	10.0	10		02/04/17 08:04	14808-79-8	

Qualifiers

Analyzed



QUALITY CONTROL DATA

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

QC Batch: 105349

QC Batch Method:

EPA 1664A TPH (1999)

Analysis Method: Analysis Description:

Matrix: Water

EPA 1664A TPH (1999)

1664 SGT-HEM, TPH

Associated Lab Samples: 1282318001

METHOD BLANK: 418447

Associated Lab Samples: 1282318001

Blank

Reporting Limit MDL Parameter Units Result

Total Petroleum Hydrocarbons ND 3.0 1.0 02/06/17 10:59 mg/L

LABORATORY CONTROL SAMPLE: 418448

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers

Total Petroleum Hydrocarbons mg/L 20 17.1 86 64-132

MATRIX SPIKE SAMPLE: 418449

Date: 02/10/2017 08:48 AM

1282419001 MS MS Spike % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers <1.1 64-132 Total Petroleum Hydrocarbons 20.4 16.2 75 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

QC Batch: 105564 Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1282318001

METHOD BLANK: 419276 Matrix: Water

Associated Lab Samples: 1282318001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 02/08/17 14:45

LABORATORY CONTROL SAMPLE: 419277

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 222 93 80-120

SAMPLE DUPLICATE: 419278

1282549002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 56.0 4 10 Total Suspended Solids 54.0 mg/L

SAMPLE DUPLICATE: 419279

Date: 02/10/2017 08:48 AM

1282575001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 56.0 10 D6 Total Suspended Solids mg/L 50.0 11

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Date: 02/10/2017 08:48 AM

QC Batch: 105275 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 1282318001

METHOD BLANK: 418218 Matrix: Water

Associated Lab Samples: 1282318001

ParameterUnitsBlank Reporting ResultReporting LimitMDLAnalyzedQualifiersSulfatemg/LND2.01.002/03/17 22:03

LABORATORY CONTROL SAMPLE: 418219

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Sulfate mg/L 50 48.2 96 90-110

418221 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 418220 MS MSD 1282336001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Sulfate 90-110 0 20 mg/L 49.0 50 50 98.7 99.2 99 100

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 418222 418223 MS MSD 1282410001 MS MSD MS Spike Spike MSD % Rec Max % Rec RPD Parameter Units Result Conc. Conc. Result Result % Rec Limits RPD Qual Sulfate 62.5 50 50 112 113 99 100 90-110 0 20 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DUL Pace Analytical Services - Duluth
PASI-V Pace Analytical Services - Virginia

BATCH QUALIFIERS

Batch: 105349

[BF] Batch extracted by separatory funnel extraction.

ANALYTE QUALIFIERS

Date: 02/10/2017 08:48 AM

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: USS MinnTac NPDES-TB Wk 1

Pace Project No.: 1282318

Date: 02/10/2017 08:48 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1282318001	SD 001 (Seep 020)	EPA 1664A TPH (1999)	105349		
1282318001	SD 001 (Seep 020)	USGS I-3765	105564		
1282318001	SD 001 (Seep 020)	EPA 300.0	105275		

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Pace Analytical

hold, incorrect preservative, out of temp, incorrect containers)

Document Name:

Sample Condition Upon Receipt Form

Document No.: F-VM-C-001-Rev.09 Document Revised: 23Feb2015

Page 1 of 1

Issuing Authority:

F-VM-C-001-Rev.09 Pace Virginia, Minnesota Quality Office

Courier: Fed Ex	Sample Condition Client Name: Upon Receipt	. ~		Project #	WO#:1282318
Countercial Pace Other Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: Proj. No Packing Material: Bubble Wrap Bubble Bags None Other:	USS Corpa	ation			PM: MMW Due Date: 02/15/17
Tracking Number: Custody Seal on Cooler/Box Present? Ves No Seals Intact? Ves No Optional: Proj. Due Date: Proj. Due Date				Client	CLIENT: USS CORP
Contact of Costact Plant Project Proje	——————————————————————————————————————	Other:			
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Type of Ice: Wet Blue None Samples on Ice, cooling process to Cooler Temp Read "C: 1-8" Cooler Temp Corrected "C: 2-1 Blological Tissue Frozen? Yes No mp should be above freezing to 6"C Correction Factor: 1-0" Samples on Ice, cooling process to mp should be above freezing to 6"C Correction Factor: 1-0" Samples on Ice, cooling process to mp should be above freezing to 6"C Correction Factor: 1-0" Samples Annies Comments: C		No	Seals I	ntact?	Yes No Optional: Proj. Due Date: Proj. Name:
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Rush Turn Around Time Requested? Yes No N/A 7. Sufficient Volume? Yes No N/A 8. Correct Containers Used? Yes No N/A 9. -Pace Containers Used? Yes No N/A 10. Containers Intact? Yes No N/A 10. Ciltered Volume Received for Dissolved Tests? Yes No N/A 11. Note if sediment is visible in the dissolved containers. Sample Labels Match COC? Yes No N/A 12. All containers needing acid/base preservation will be checked and documented in the pH logbook. Headspace in Wethyl Mercury Container Yes No N/A 14. Tirp Blank Present? Yes No N/A 14. Tirp Blank Custody Seals Present? Yes No N/A 15. IENT NOTIFICATION/RESOLUTION Field Data Required? Yes No Nerson Contacted: Date/Time: Comments/Resolution:	Short Hold Time Analysis (<72 hr)?				6,
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Intra-Regional Chain of Custody



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^{***}In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.



Document Name: Sample Condition Upon Receipt Form

Document No.: F-DUL-C-001-rev.02 Document Revised: 27Jan2017 Page 1 of 1

Issuing Authority:

Pace Duluth Minnesota Quality Office

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hain of Custody Prese	nt?		Yes	□No	□N/A	1.						
hain of Custody Filled	Out?		∑¥Yes	□No	□N/A	2.						
hain of Custody Relinc	juished?		Yes	□No	□N/A	3.						
ampler Name and Sigr	ature on COC?		Yes	□No	□\ ₹/A	4.						
amples Arrived within	Hold Time?		¥es	□No	□N/A	5.						
hort Hold Time Analy	sis (<72 hr)?		∐Yes	ĽK₀.	□n/a	6.						
ush Turn Around Tim	e Requested?		☐Yes	No	N/A	7.						
ufficient Volume?			∑¥Yes	□No	□n/a	8.						
orrect Containers Use	d?		∑ Yes	□No	□n/A	9.						
-Pace Containers Us	ed?		Yes	□No	□n/a							
ontainers Intact?			∑¥Yes	□No	□n/a	10.		- ,-				
iltered Volume Receiv	ed for Dissolved Tests	5?	Yes	□No	ĎÑ/A	11. Note	if sedimen	t is visible i	n the disso	lved con	tainers.	
ample Labels Match C	OC?		✓¥Yes	□No	□n/A	12.						
-Includes Date/Time	/ID/Analysis Matrix:	W	<u> </u>									
All containers needing	•		∐Yes	□No	□X ÑI/A		log for entatio	results a า	nd add	itional	preser	vatio
leadspace in Methyl N			∐Yes	No	□N/A	13.						
eadspace in VOA Vial	s (>6mm)?	**	Yes	□No	□N/A	14.						
rip Blank Present?			∐Yes	□No	□N/A	15.						
rip Blank Custody Sea	ls Present?		Yes	□No	□N/A							
ace Trip Blank Lot # (i	f purchased):											
IENT NOTIFICATION	RESOLUTION							Field Data	Required	ı ? □Y	es 🗆 No)
Person Co					1	Date/Time:			-			
Comments/Res	- alution					•						
confinency ne.												

hold, incorrect preservative, out of temp, incorrect containers)